

no luck with ssurgo data

Posted by meh@uwyo.edu - 2008/01/09 23:27

I am trying to run SWAT on a watershed in Wyoming, and while the latest version of AGWA2 does successfully parameterize 4 Wyoming counties of SSURGO data appended together, when I go to run the simulation (SWAT) it gives me this error: "program exception: array bounds exceeded"

I decided to try a smaller area (just one county, South Campbell), but suddenly AGWA2 won't delineate a smaller area. It always fails with this message: watershed delineation error. This no matter what part of the watershed I select using the User Defined option. I even tried using the Point Theme, using the outlet created by the earlier simulation, and I still get the same error. I have tried creating a new mxd and loading the data again, same error! But the filled dem, flow dir and flow accum did work previously. Very weird.

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Re:no luck with ssurgo data

Posted by isburns - 2008/01/09 23:36

Can you zip the SWAT simulation folder and upload it? I'll need that to figure out why you're getting the error message.

Regarding the delineation problems, I have witnessed some of these errors, but unfortunately not on a development machine which would allow me to debug it. The other unfortunate part of delineation errors, in my experience anyway, is that it isn't always reproducible, though it certainly sounds like it is in yours. When you tried creating a new MXD, did you shut ArcMap completely down or just create a new map with the same instance running? If you didn't shut it down completely, give that a shot; if that doesn't work, see if rebooting your computer works.

Shea

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Re:no luck with ssurgo data

Posted by meh@uwyo.edu - 2008/01/10 22:19

Rebooting seemed to solve the delineation problem. And I actually did get Kineros to run on a small watershed, using SSURGO data (still no luck with SWAT). When I tried a neighboring watershed that crosses county boundaries (requiring SSURGO data to be appended), parameterization worked, but Kineros failed. Got this error from Kineros: "processing plane element 181 error Plane Element particle size fractions do not add to 1"

Trying to narrow down the problem, I ran Kineros again on another watershed completely inside of county #2, got the same error. Looked at the .par files and noticed almost all values are 0 for the planes so my guess parameterization didn't work, after all. How can I narrow down what the problem might be between SSURGO county #1 which did work (south Campbell) and SSURGO county #2 which didn't work? (north campbell).

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Re:no luck with ssurgo data

Posted by isburns - 2008/01/16 18:18

I have the data for North and South Campbell county and also for Sheridan and will try a few parameterizations this week to see if I get the same results. If you'd like, you can upload a point theme of the outlet locations you're using so that I'm working in the exact same place as you.

Shea

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